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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/390,051	09/03/1999	GEOGGREY S.M. HEDRICK	3190-31	6250

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EXAMINER

NGUYEN, KIMNHUNG T

ART UNIT PAPER NUMBER

2674

DATE MAILED: 09/03/2004

19

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/390,051

Applicant(s)

HEDRICK, GEOGGREY S.M.

Examiner

Kimnhung Nguyen

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 09 January 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-10 and 13-23 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-10 and 13-18 is/are allowed.
- 6) ☒ Claim(s) 19-21 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

This application has been examined. The claims 1-10, and 13-23 are pending. The examination results are as following.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 19-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Bennington (US 5,009,598).

Regarding claim 19, Bennington discloses in figure 3, a color flat panel (see flat panel display having multiple indicator, see column 4, lines 12-24) displaying to a crew in a cockpit in an aircraft, simulated aircraft instrument and aircraft system parameters related to data from aircraft instruments and indicia for indicating integrity of display data being received for display by the color flat panel display (see figure 3), comprising a display screen system parameters (13) are displayed in a first color (see airspeed indicator 14) and said indicia are normally displayed in a single, predetermined, unchanging second color (see attitude indicator 15) different from said first color such that any color change from said second color in said indicia normally displayed in said second color (because each individual instrument as result of a change in indicia data fed to the display screen visually indicates reduced operating integrity of the display data and thereby visually alerts crew to a possible problem with the displayed aircraft system

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parameters (because the individual instrument having owns function and working together,(see column 4, lines 12-38).

Regarding claim 20-21, Bennington discloses a color flat panel, wherein the indicia define a border or pointer of at least one of the simulated aircraft instruments displayed on said flat panel (see figure 1).

Allowable Subject Matter

3. Claims 1-10, 13-18, 22-23 are allowed.

The following is an examiner's statement of reasons for allowance: The present invention is directed to a flat panel display system for displaying data relating to a aircraft system parameters from corresponding aircraft instruments to a flight crew in a cockpit of an aircraft comprising a flat panel display for visually displaying the aircraft system parameters on simulated instruments found on the flat panel and for displaying indicia that said data is being received related to the aircraft system parameters from corresponding aircraft instruments; a first central processor for receiving said data from the aircraft instruments measuring said aircraft system parameters; a first graphics generator operatively coupled to the first central processor for generating a first set of color, a second graphics generator operatively coupled to the second central processor for generating a second set of color data as a function of the data received by the second central processor and for outputting the second set of color data. The combination of the closest prior art, Factor (6,281,810), Bennington (US 5,009,598), Wright (5,668,542) and Purpus et al. (US 6,317,059) show a similar a display system for displaying data relating to a aircraft system parameters from corresponding aircraft instruments to a flight crew in a cockpit

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of an aircraft comprising a flat panel display for visually displaying the aircraft system parameters on simulated instruments found on the flat panel and for displaying indicia that said data is being received related to the aircraft system parameters from corresponding aircraft instruments; a first central processor for receiving said data from the aircraft instruments measuring said aircraft system parameters; a first graphics generator operatively coupled to the first central processor for generating a first set of color, a second graphics generator operatively coupled to the second central processor for generating a second set of color data as a function of the data received by the second central processor and for outputting the second set of color data. However, they fail to teach when either of a first and second sets of color data is not output to a location on a flat panel display, the indicia is in a color different from another color, said another color different from the colors of said first and second sets of color data as claims 1 and 13, or a second independent processor for receiving the flight data information supplied to the display system and operable for generating a second output to the display screen, concurrent with said output of the first processor, for illuminating a second subset of said plural color pixels at said each location to thereby present the flight data image on the display screen at said each location in said presentation color formed by concurrent illumination by the first and second processors of a combination of said first and second subsets of the plural color pixels at said each location as claim 22, or a second independent processor for generating the flight data image as a second output for illuminating a second subset of a plural color pixels at each location; and concurrently supplying the first and second outputs to the display screen so as to concurrently illuminate the first and second subsets of the plural color pixels at said each location of the display screen, and thereby present the flight data image on the display screen at said each location in the

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presentation color formed by the concurrent illumination of the first and second subsets of the plural color pixels at said each location of the color flat panel display screen as claim 23.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number (703) 308-0425.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **RICHARD A HJERPE** can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D. C. 20231

Or faxed to:


(703) 872-9314 (for Technology Center 2600 only).

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, VA Sixth Floor (Receptionist).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kimnhung Nguyen
August 26, 2004


RICHARD HJERPE 9/2/04
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600